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Extrinsic and intrinsic cues involved in BCR-ABL induced leukemogenesis

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Stellingen

accompanying the thesis

Extrinsic and intrinsic cues involved in BCR-ABL induced leukemogenesis

1. The establishment of a human niche in NSG xenograft mice allows induction of transplantable ALL and increases the incidence of AML by human CB CD34+ cells expressing BCR-ABL without additional exogenous hits. - This thesis
2. Self-renewal of BC-CML LT-LSCs could be better maintained in the presence of a humanized scaffold niche. - This thesis
3. The observed differential gene expression on transcriptome analyses of murine niche versus human niche derived human CD45 positive BCR-ABL expressing cells suggest a possible role for niche-imposing intrinsic transcriptome changes. - This thesis
4. BCR-ABL can impose hypoxic signaling under normoxic conditions. - This thesis
5. BCR-ABL-positive cells are highly dependent on glutaminolysis along with glycolysis and targeting this pathway might provide an interesting alternative therapeutic approach in CML. - This thesis
6. Why don't elephants or whales get cancer and mice do? The answer lies in significant differences in specific basic metabolic rates between the elephant and mouse. - Chi V. Dang [A metabolic perspective of Peto's paradox and cancer. *Philos Trans R Soc Lond B Biol Sci.* 2015 Jul 19; 370(1673): 20140223]
7. Cancer cells come pre-programmed to execute a well-defined cascade of changes, seemingly designed to facilitate both their enhanced survival and their dissemination through the bloodstream. There is even an air of conspiracy in the way that tumors use chemical signals to create cancer-friendly niches in remote organs. – Paul Davies [Cancer can teach us about our own evolution. *The Guardian* 2012 Nov 18]
8. Every science begins as philosophy and ends as art. – Will Durant [The Story of Philosophy. 1926]
9. Truth can be stated in a thousand different ways, yet each one can be true. - Swami Vivekanand [The Complete Works of Swami Vivekananda, Volume 5. 1953]
10. यः पठति लिखति पश्यति परिपृच्छति पण्डितान् उपाश्रयति ।
तस्य दिवाकरकिरणैः नलिनी दलं इव विस्तारिता बुद्धिः ॥
One who reads, writes, sees, inquiries and lives in the company of learned men, his or her intellect expands like the lotus leaf, blooming in the rays of the rising sun. - Sanskrit Subhashit (saying)
11. Alles komt op zijn tijd. - Dutch proverb

Pallavi Sontakke